



E-10
VICINITY MAP
1"=750'±

LEGAL DESCRIPTION: LOT 1, BLOCK 12, VOLCANO CLIFFS SUBDIVISION, UNIT 3
AREA: 1.3627 AC = 59,359 SF

BENCHMARK: ACS "13-E10" LOCATED AT THE INTERSECTION OF ATRISCO ROAD NW AND SANTO DOMINGO STREET NW IN THE NORTHWEST QUADRANT OF THE INTERSECTION.
ELEVATION = 5204.80

FLOOD ZONE DESIGNATION: AS PER DETERMINED ON PANEL #112 OF 825 OF THE FEMA FLOOD INSURANCE RATE MAP DATED SEPTEMBER 20, 1996, NO PORTION OF THIS SITE LIES WITHIN A FLOOD ZONE.

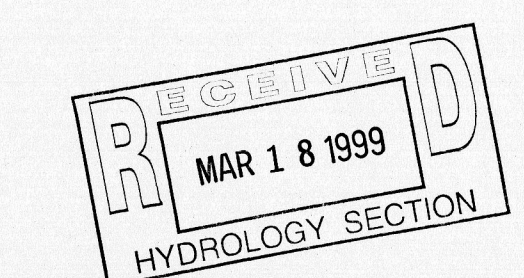
EXISTING CONDITIONS: THE SITE IS CURRENTLY UNDEVELOPED WITH VEGETATIVE COVER NATIVE TO THE CITY'S WEST SIDE (TYPE A). TESUQUE DRIVE AND MOHAVE STREET BORDER THE PROPERTY TO THE EAST AND SOUTH RESPECTIVELY. THE SOUTHERN PORTION OF THE SITE SLOPES EAST AT AN AVERAGE SLOPE OF 6%. THE REMAINDER OF THE SITE SLOPES TO THE NORTH AT SLOPES RANGING BETWEEN 2% TO 14%. THE BOCA NEGRA ARROYO IS ADJACENT TO THE NORTH PROPERTY BOUNDARY. ALL SITE RUNOFF IS CONVEYED VIA SHEET FLOW OR STORM DRAIN TO THE BOCA NEGRA ARROYO. BOTH TESUQUE DRIVE AND MOHAVE STREET ARE PAVED STREETS WITH CURB AND GUTTER. NO OFFSITE FLOWS CROSS THE SITE.

EXISTING HYDROLOGY:
PRECIPITATION ZONE: 1
LAND TREATMENT:
TYPE A = 80% = 1.09 AC
TYPE B = 20% = 0.2727 AC
WT E = $(1.09(0.44) + 0.2727(0.67))/1.3627 = 0.49$ IN
 $Q_p = 1.29(1.09) + 2.03(0.2727) = 1.96$ CFS

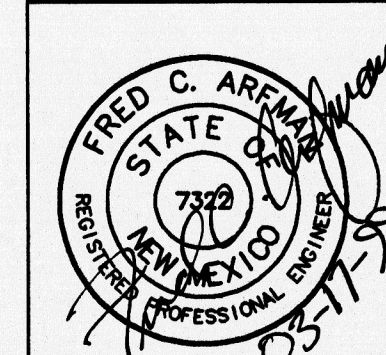
PROPOSED CONDITION: THE SITE IS PROPOSED TO BE DEVELOPED INTO A 5 LOT SINGLE FAMILY RESIDENTIAL SUBDIVISION. TWO LOTS WILL FRONT ALONG MOHAVE STREET AND THE OTHER THREE LOTS WILL FRONT ALONG TESUQUE DRIVE. ALL RUNOFF DEVELOPED ON THE SITE WILL BE ALLOWED TO HAVE FREE DISCHARGE INTO THE BOCA NEGRA ARROYO AS WAS PREVIOUSLY DETERMINED IN SAD #219. THE FLOWS WILL BE CONVEYED VIA STREET FLOW TO THE ARROYO. AN EROSION CONTROL BARRIER WILL BE CONSTRUCTED ALONG THE NORTH PROPERTY BOUNDARY TO PROVIDE PROTECTION FOR THE LOT ADJACENT TO THE ARROYO (SEE DETAIL BELOW).

PROPOSED HYDROLOGY:
LAND TREATMENTS:
TYPE D = 40% = 0.55 AC
TYPE B = 30% = 0.406 AC
TYPE C = 30% = 0.406 AC

WTE = $(0.67(0.406) + 0.99(0.406) + 1.97(0.55))/1.3627 = 1.28$ IN
 $Q_p = 2.03(0.406) + 2.87(0.406) = 4.37(0.55) = 4.40$ CFS
 $V_{500} = (1.3627(1.28))/12 = 0.145$ AC*FT



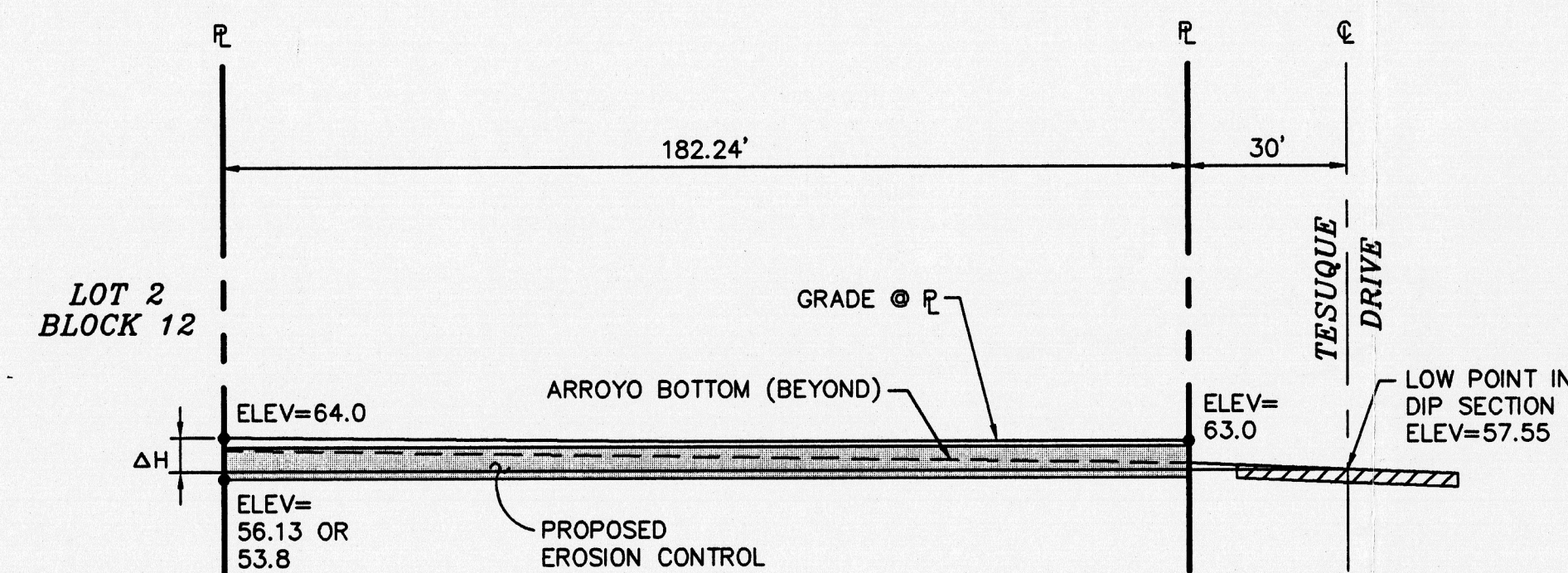
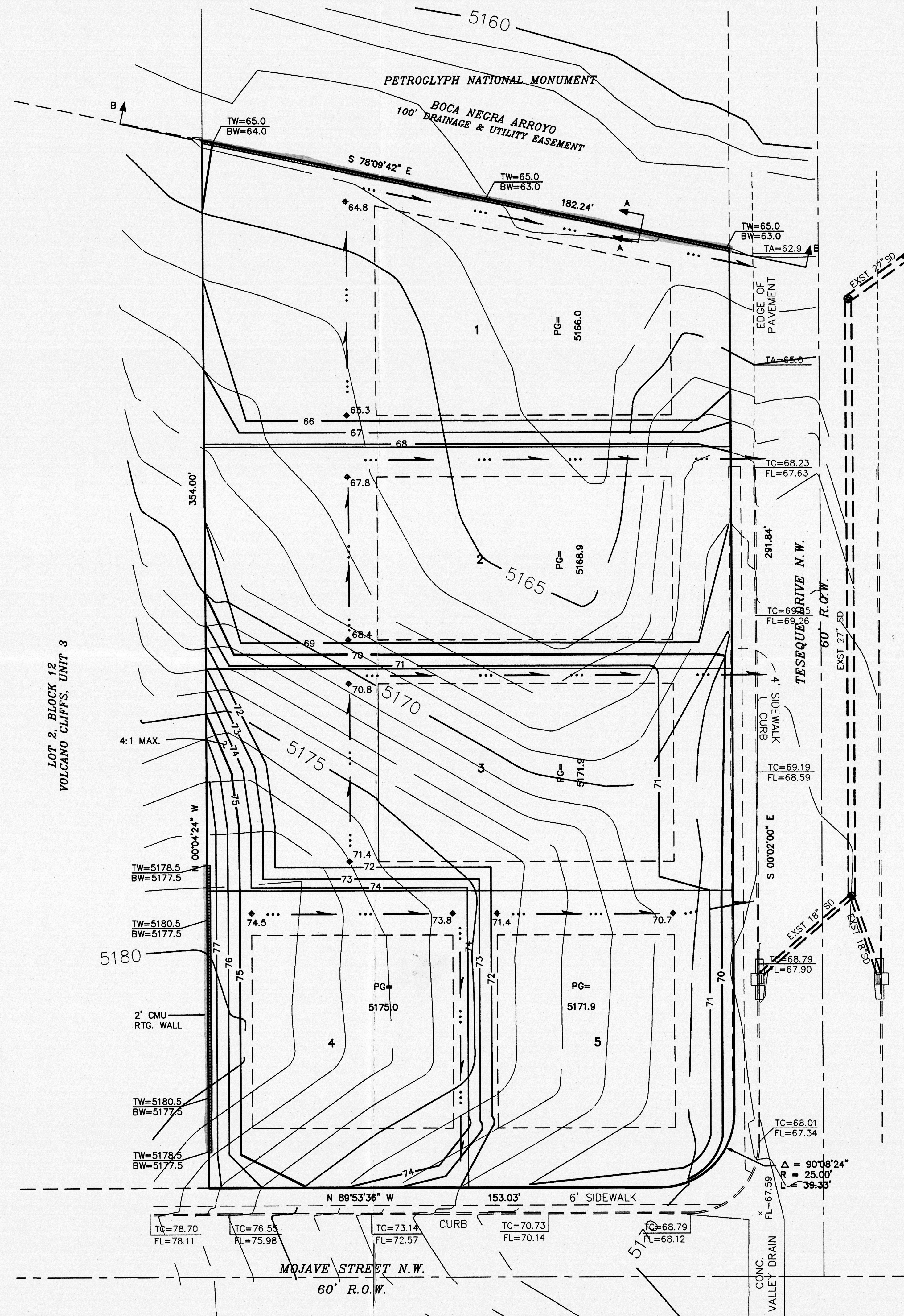
**LOT 1, BLOCK 12, VOLCANO CLIFFS
(UNIT 3)
GRADING & DRAINAGE PLAN**



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SHEET 1 OF 1

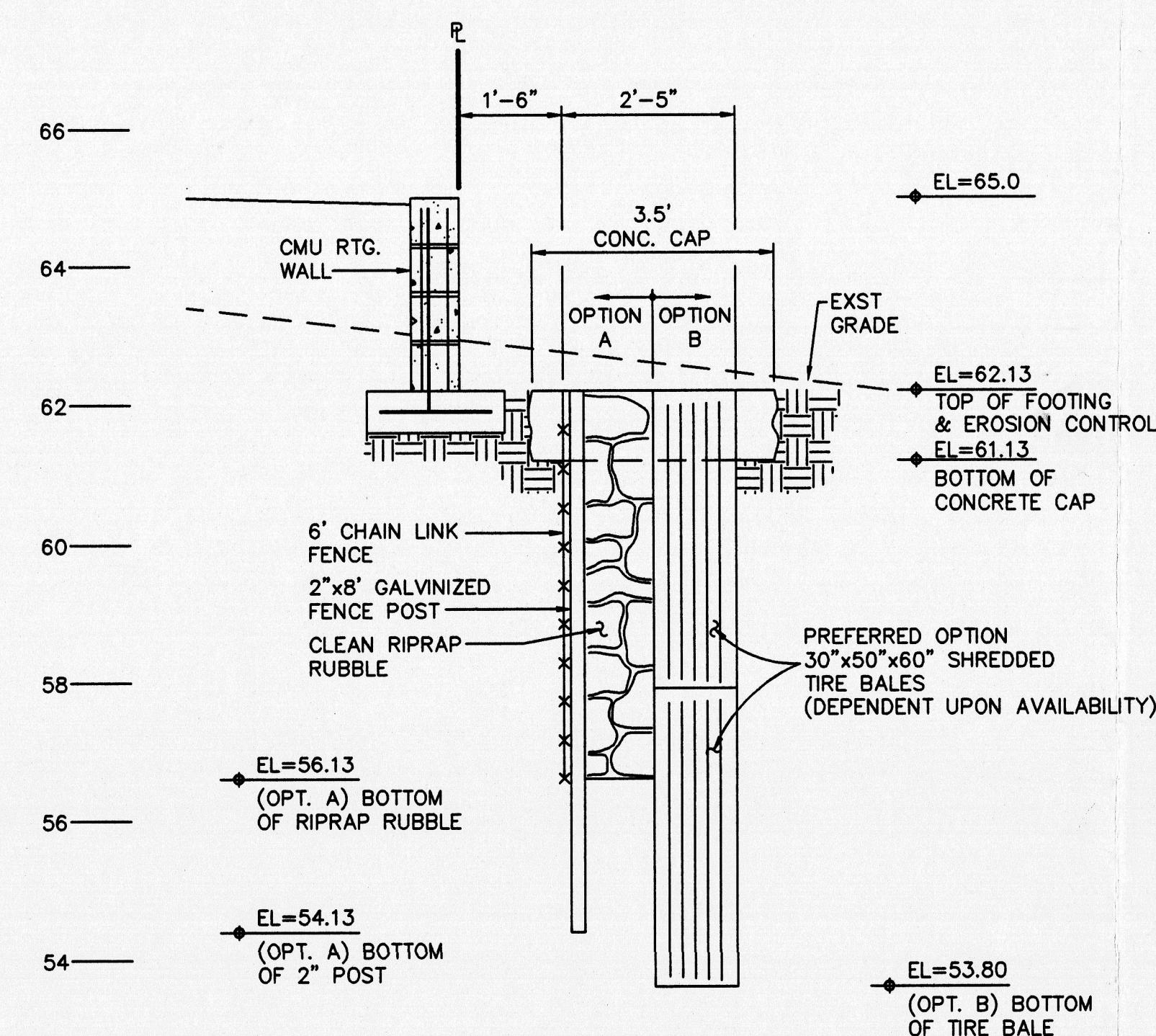


ΔH = MAX SCOUR LIMITS
 ΔH < PROPOSED EROSION CONTROL

**SECTION B-B
SCOUR LIMITS**
SCALE: 1"=30'

LEGEND

- 5160 EXISTING CONTOUR
- 70 PROPOSED CONTOUR
- TC=68.01
FL=67.34 EXISTING TC ELEVATION
- 70.7 EXISTING FL ELEVATION
- 70.7 PROPOSED SPOT ELEVATION
- PG=5168.9 PROPOSED PAD GRADE
- EXST SD EXISTING STORM DRAIN
- EXST INLET EXISTING INLET
- EXST C&G EXISTING CURB & GUTTER
- ... FLOW ARROW
- PROPOSED RETAINING WALL
- TC=69.19
FL=68.59 PROPOSED TOP OF WALL ELEVATION
- PG=5171.9 PROPOSED BOTTOM OF WALL ELEVATION



SECTION A-A
SCALE: 1"=2'